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FIG. 1

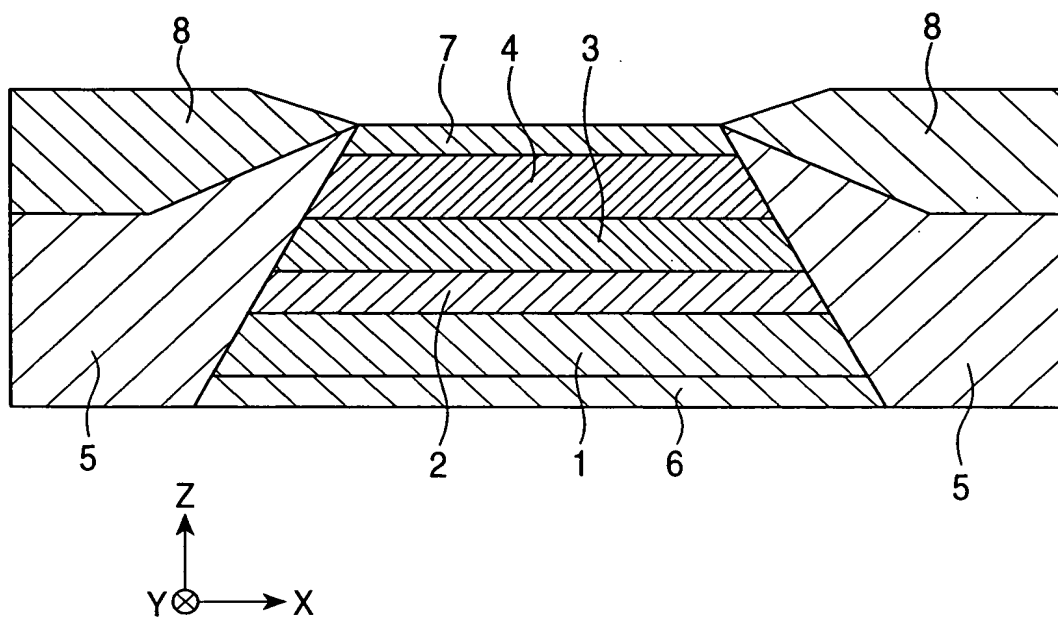


FIG. 2

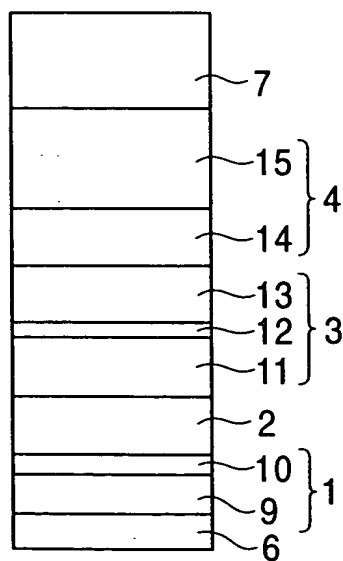
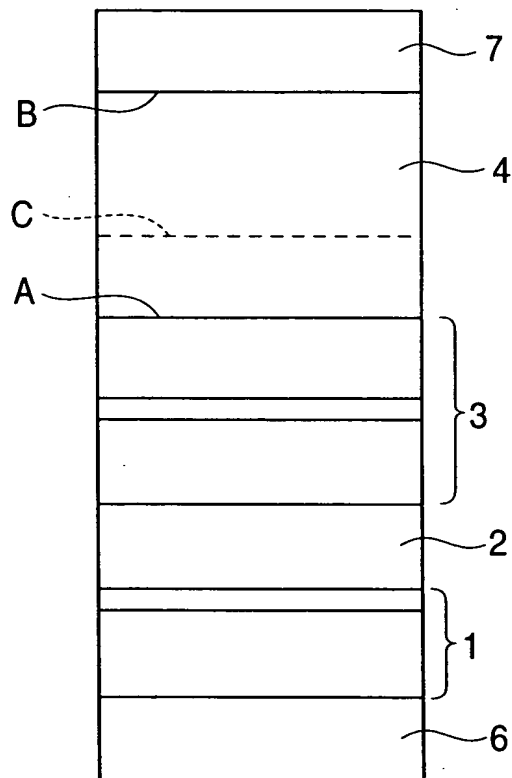


FIG. 3



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FIG. 4

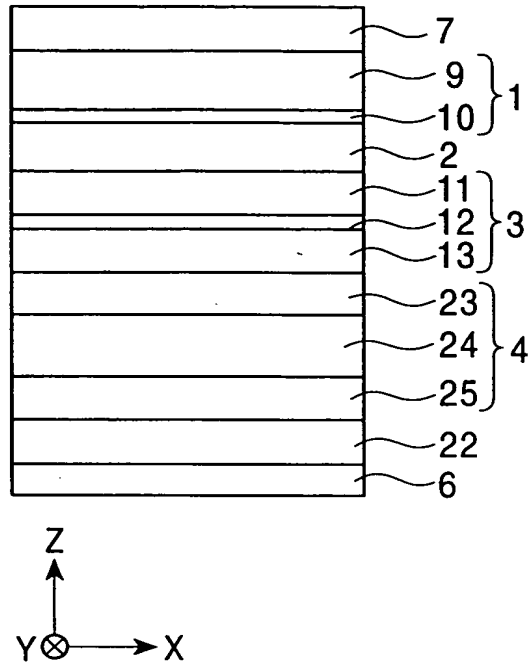
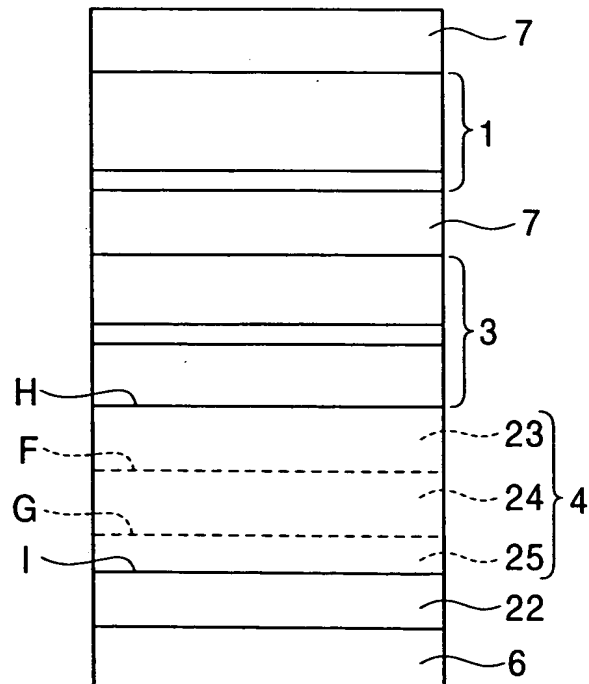


FIG. 5



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FIG. 6

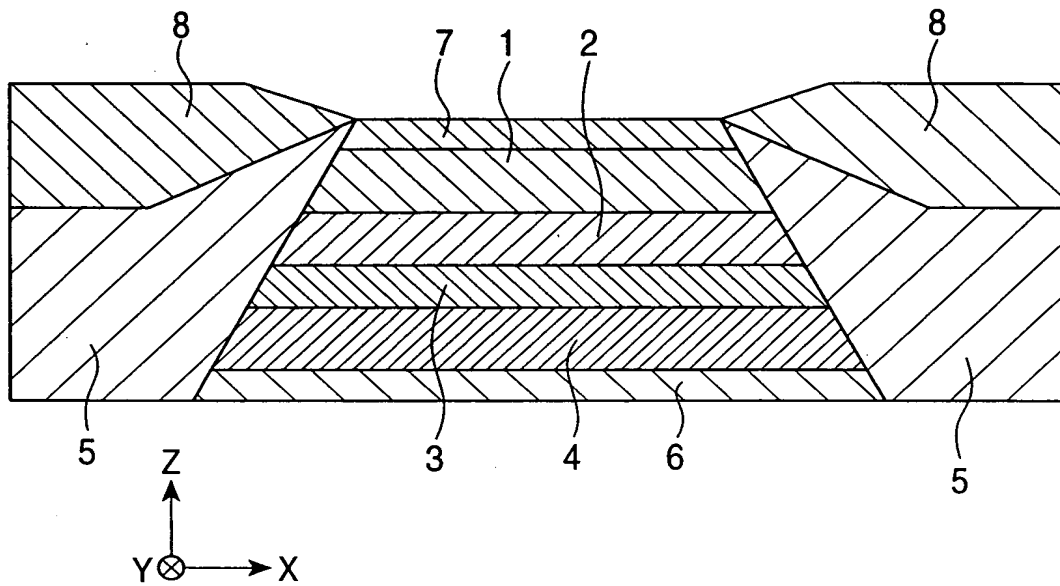
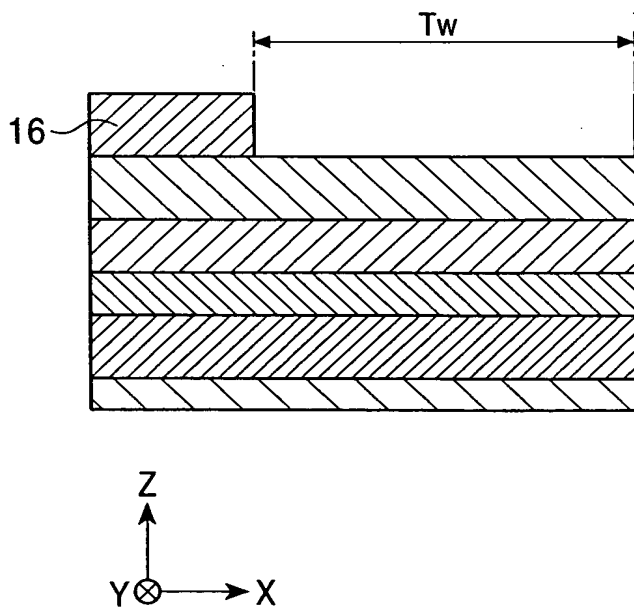


FIG. 7



exchange bias layer
 free mag layer
 intermediate layer (non-mag)
 pinned magnetic layer
 antiferromagnetic layer

FIG. 8

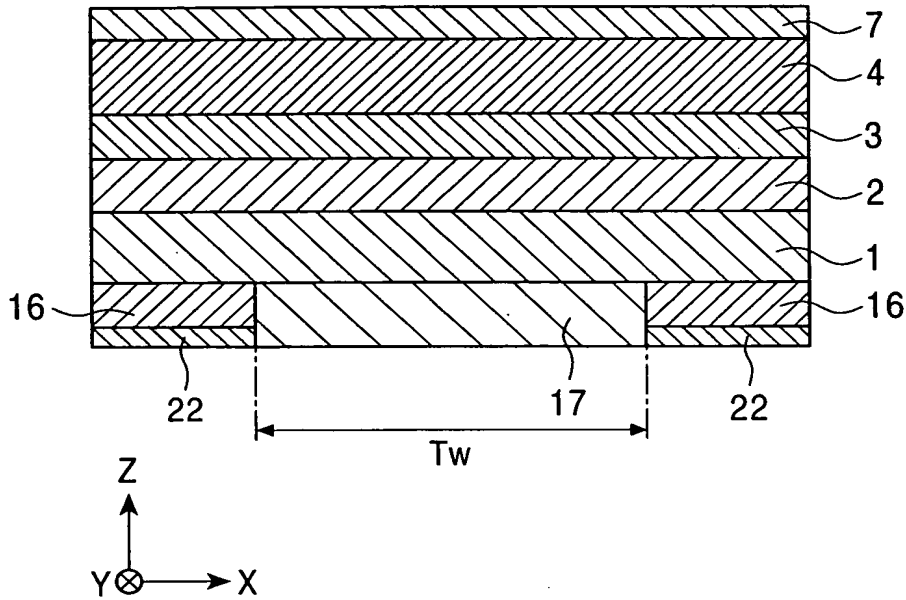
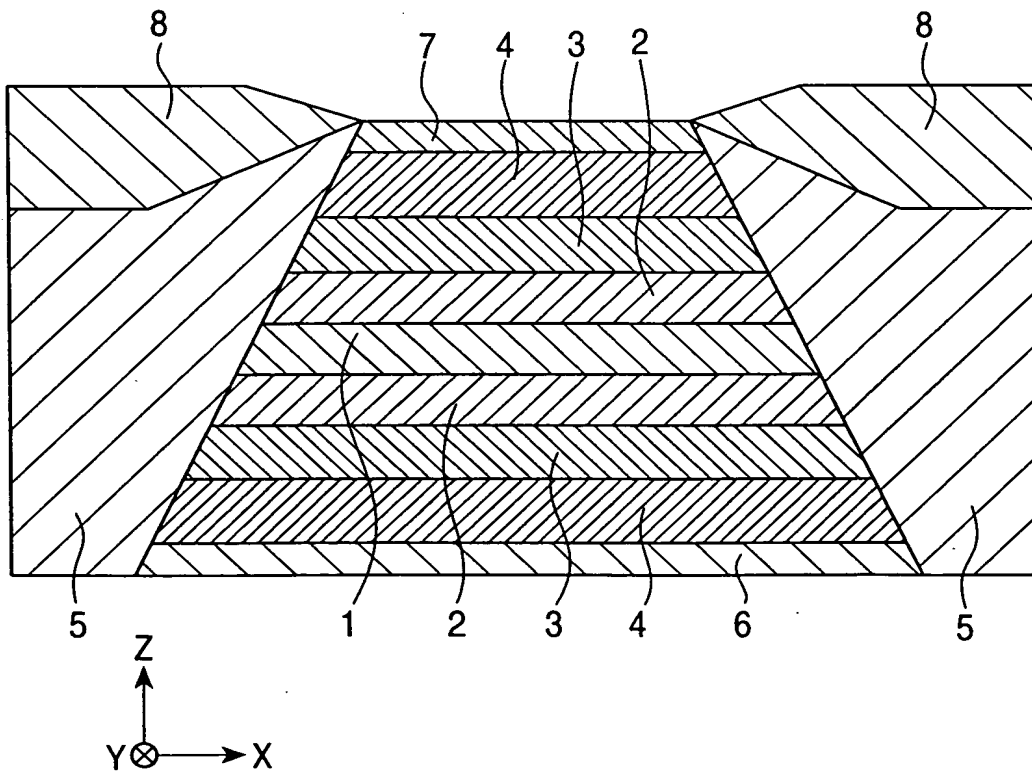


FIG. 9



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FIG. 10

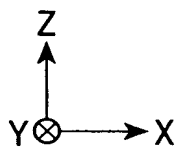
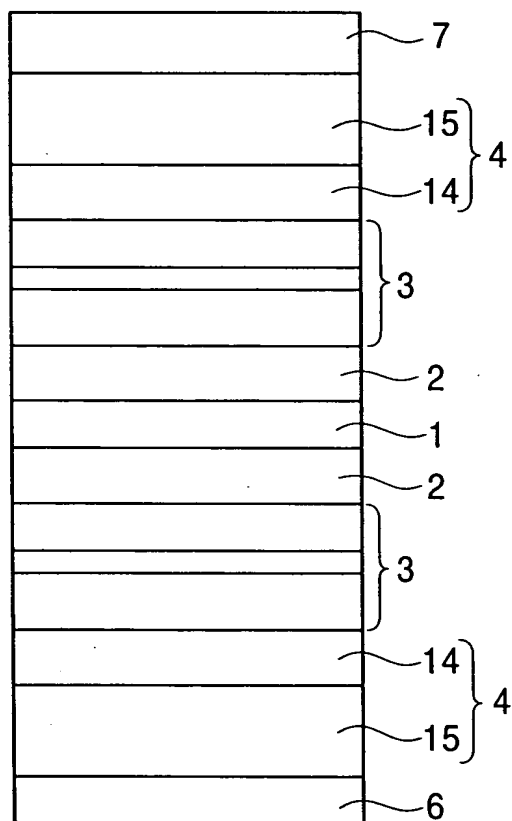


FIG. 11

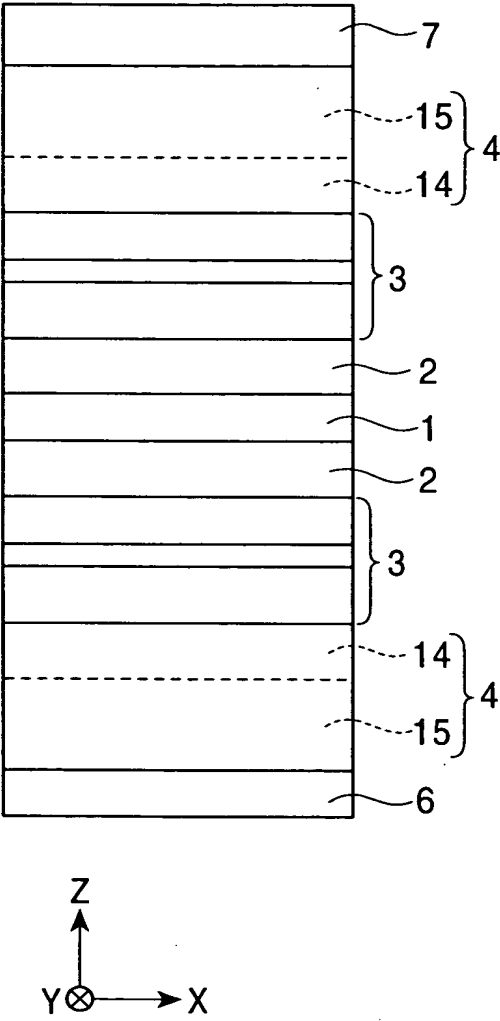


FIG. 12

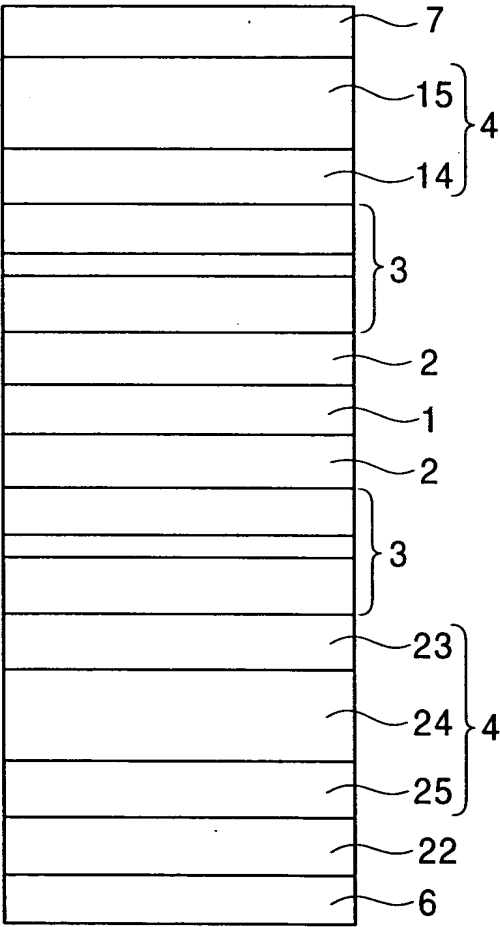
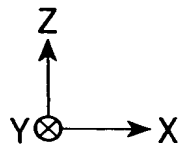
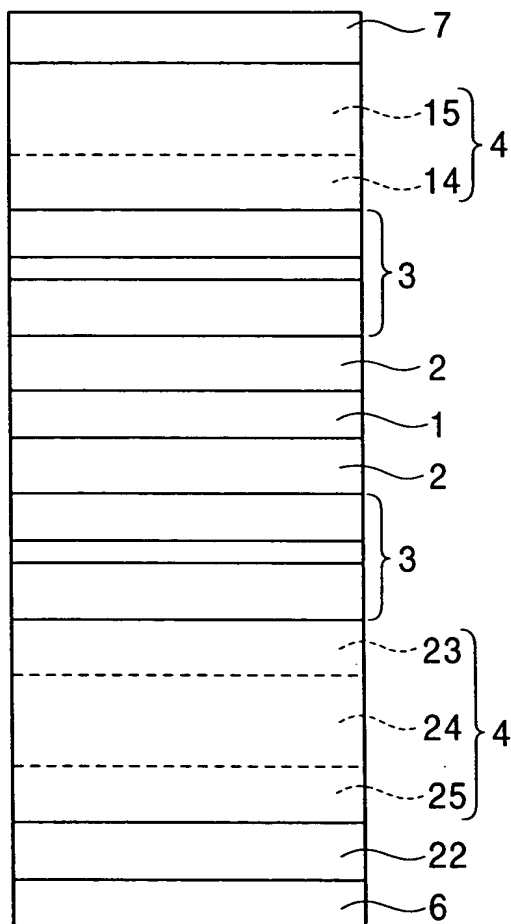


FIG. 13



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FIG. 14

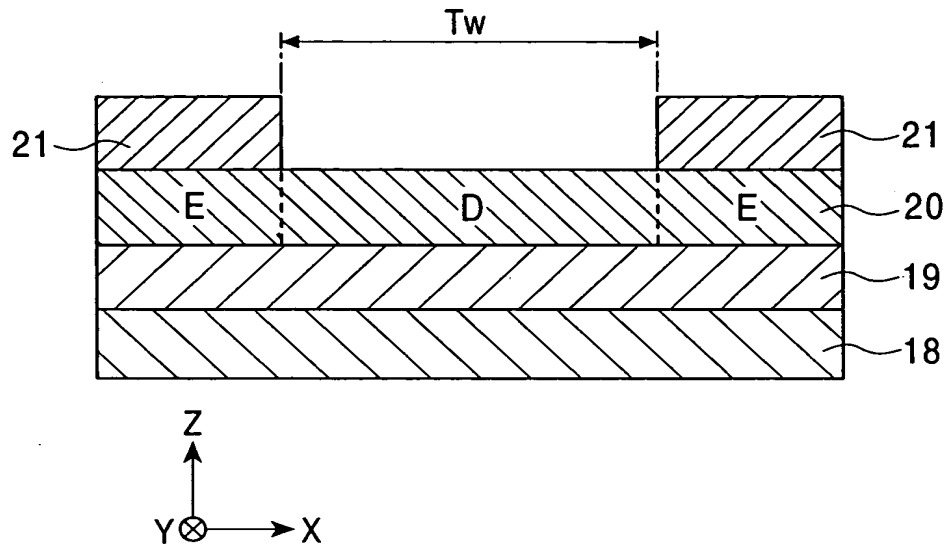
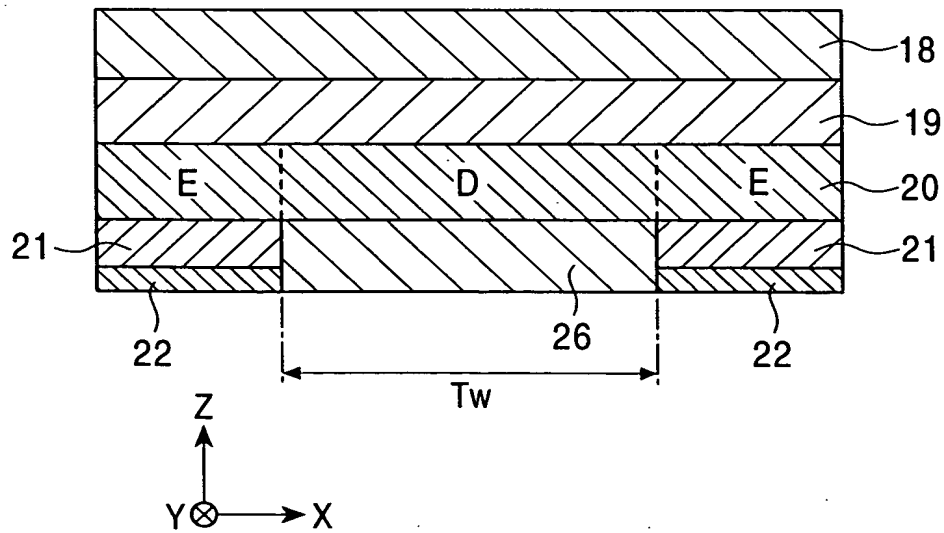


FIG. 15



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FIG. 16

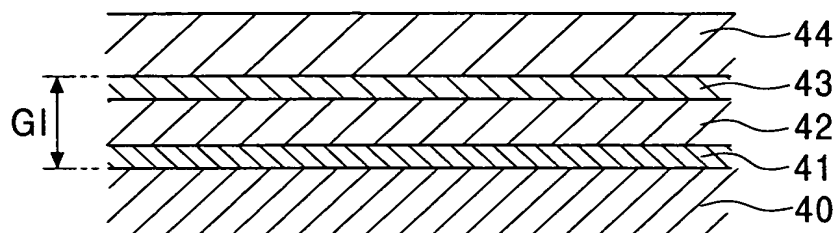
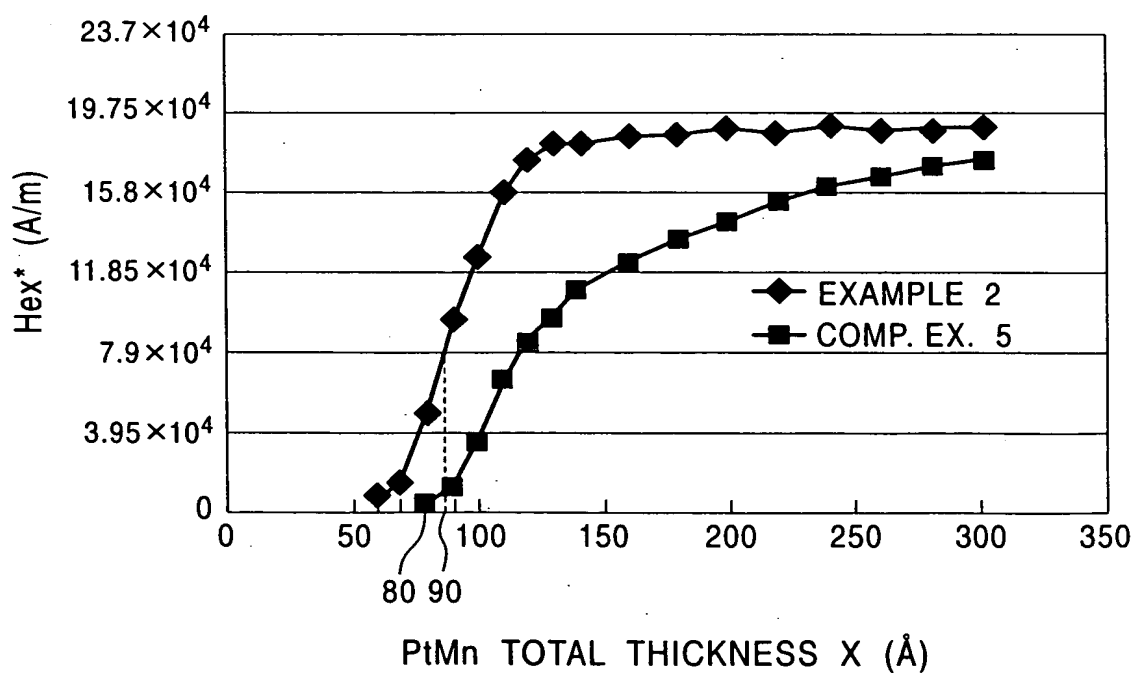


FIG. 17



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FIG. 18

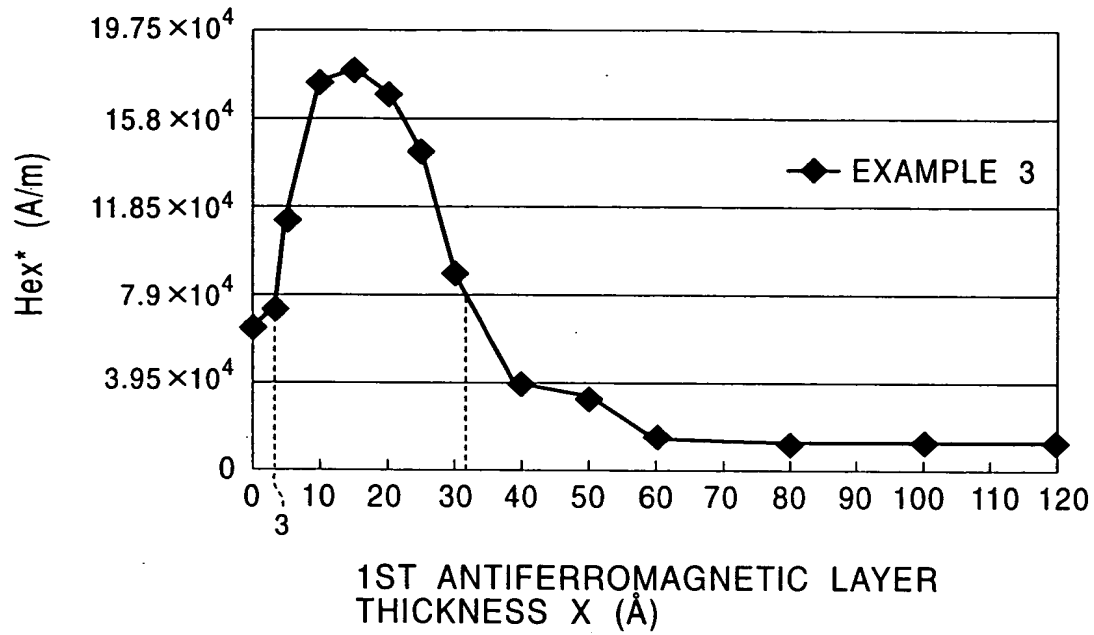


FIG. 19

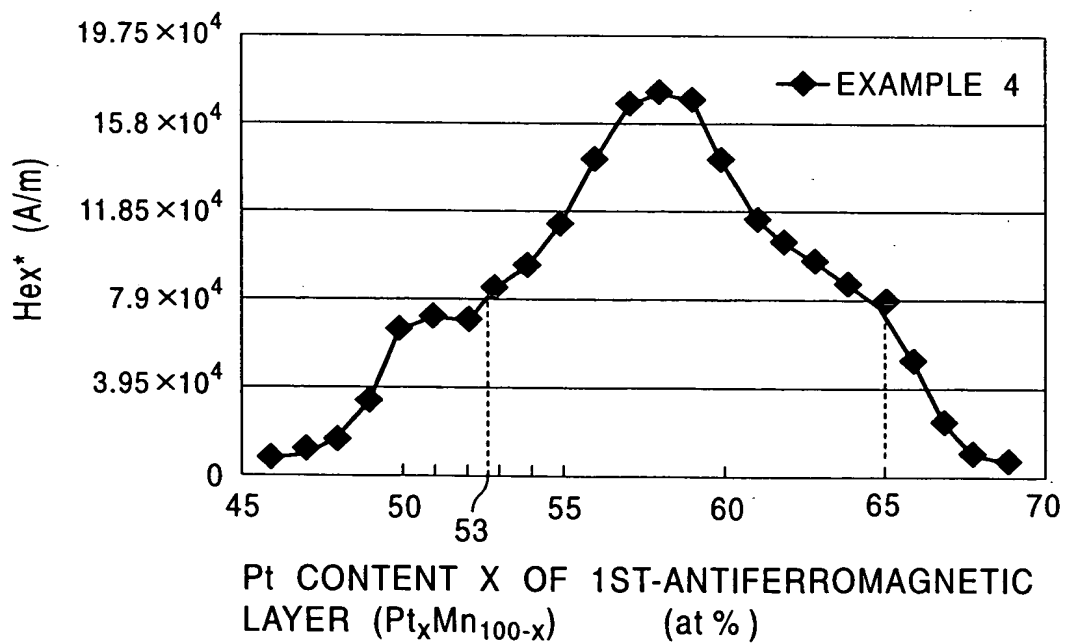




FIG. 20
PRIOR ART

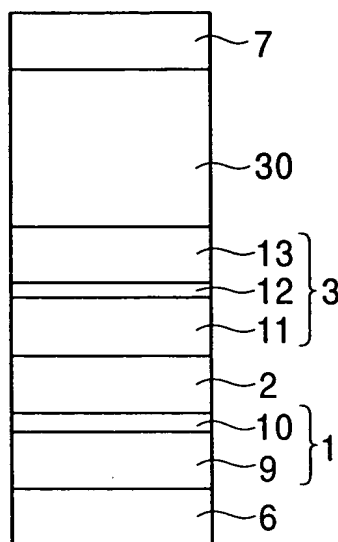


FIG. 21
PRIOR ART

